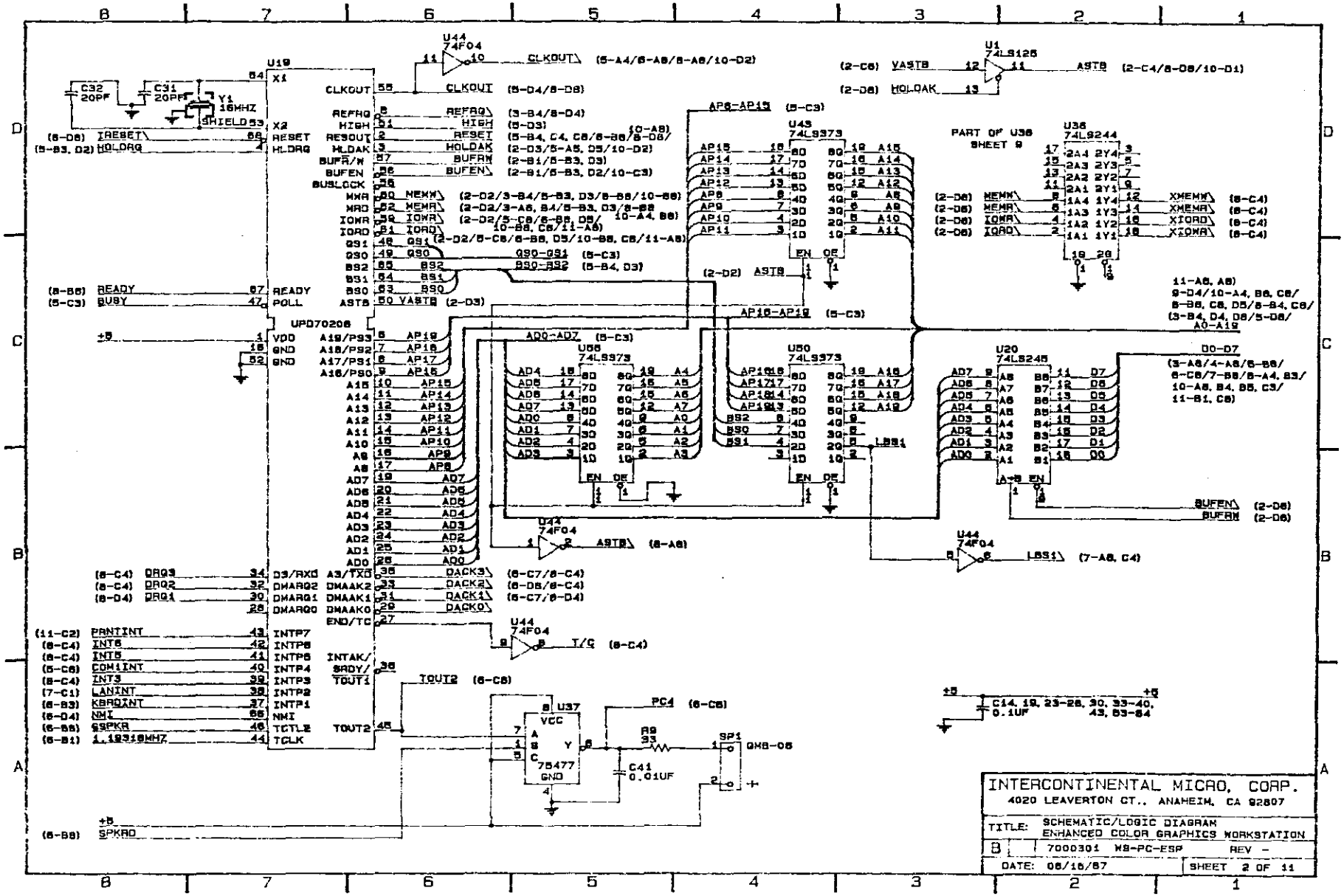
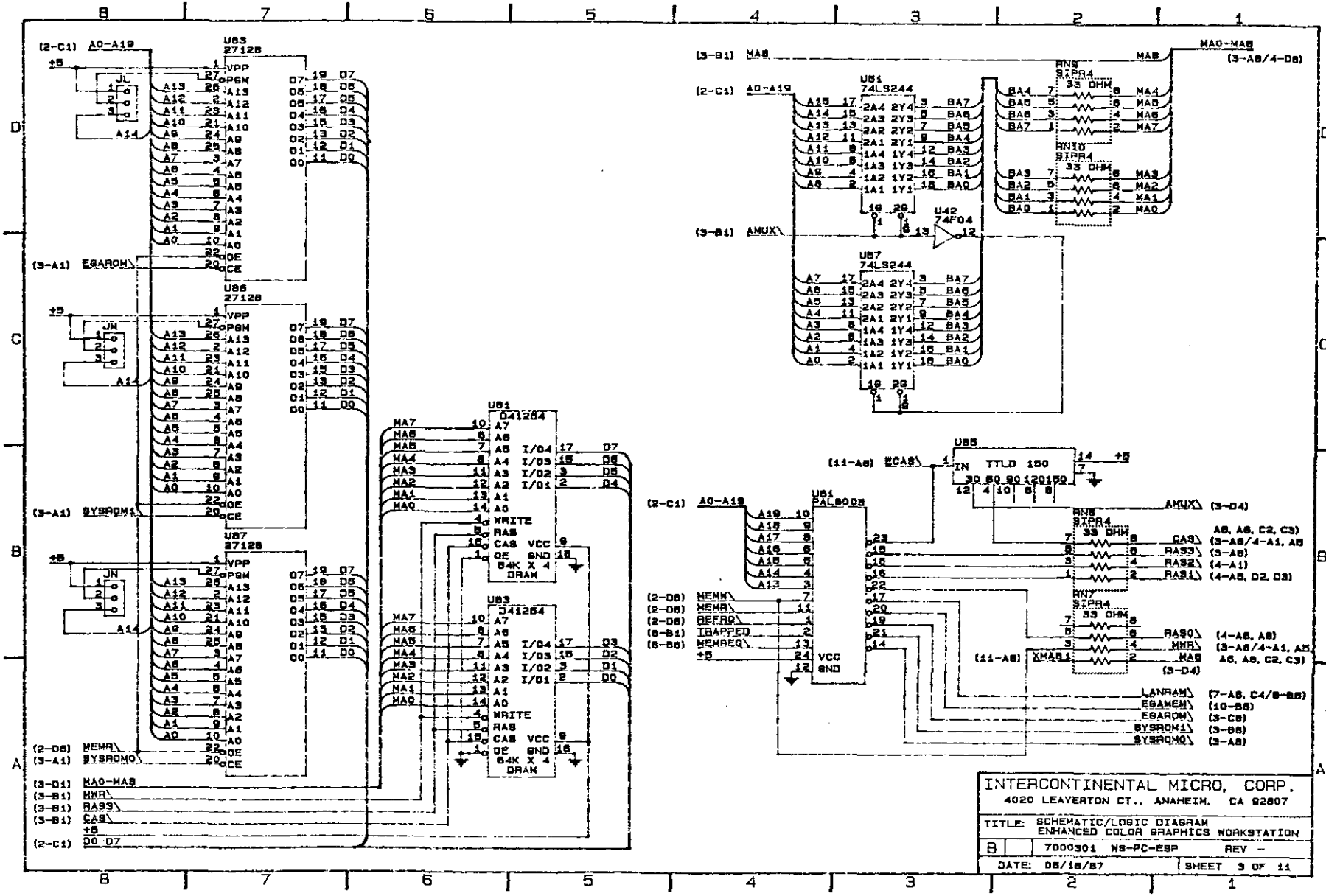
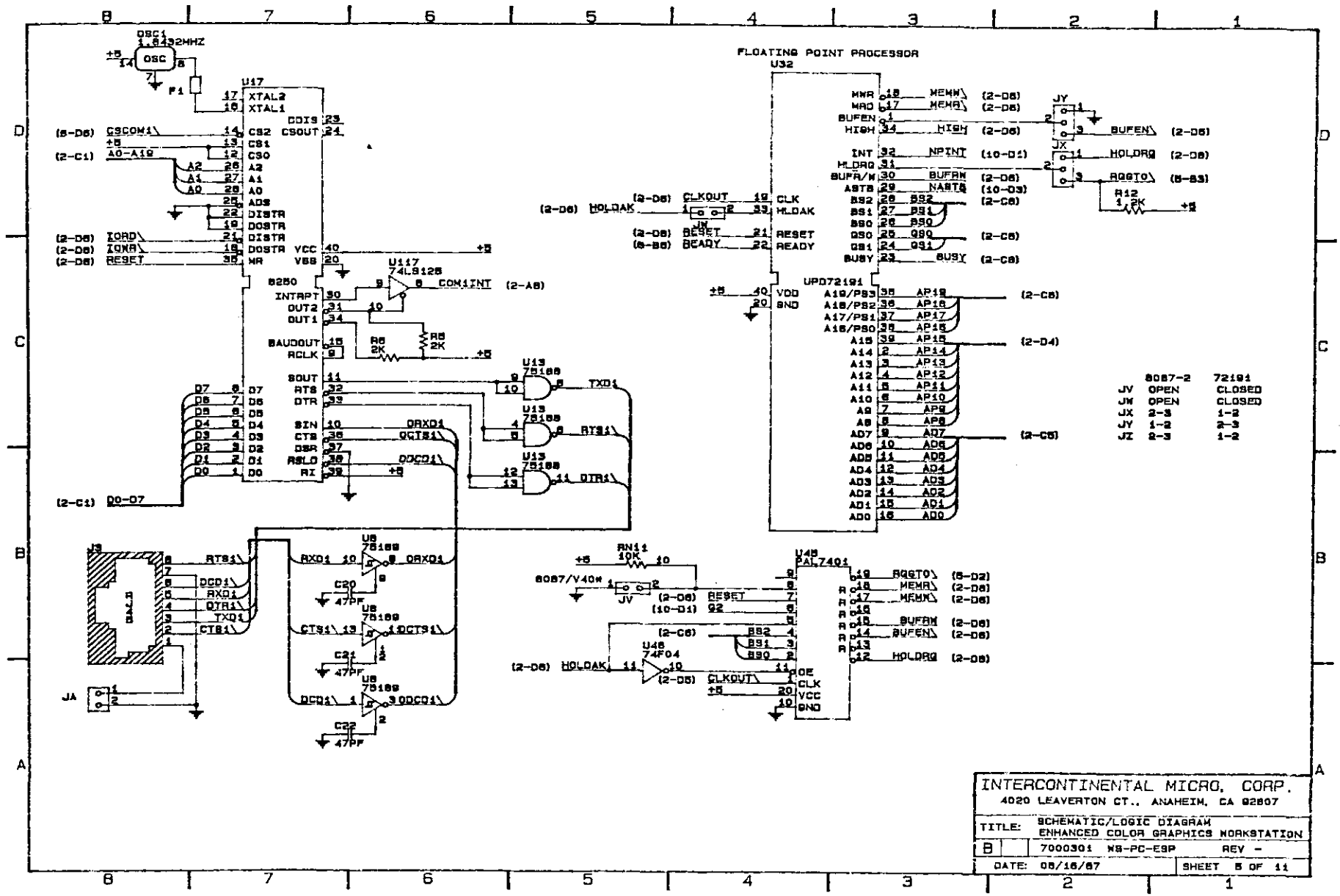
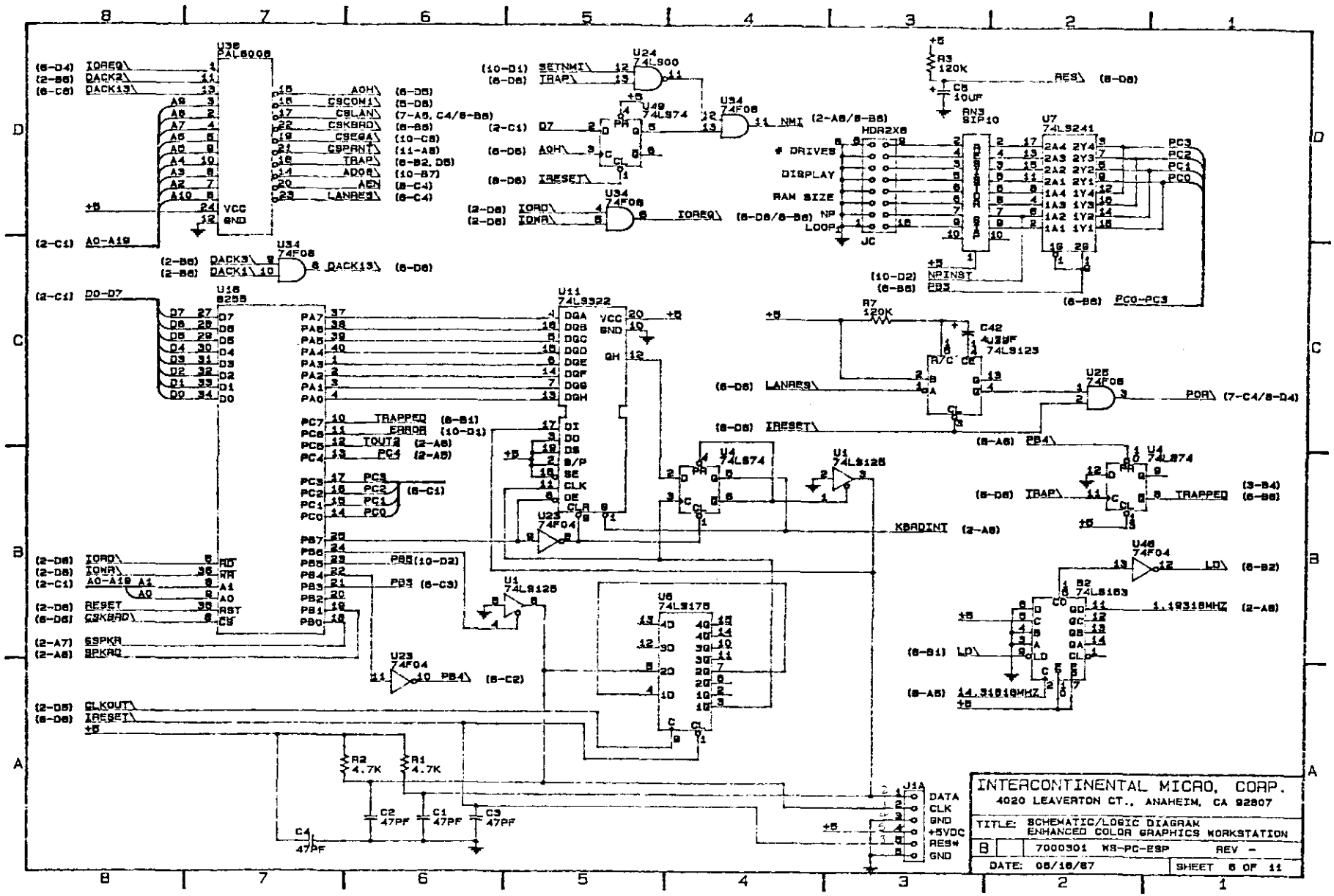
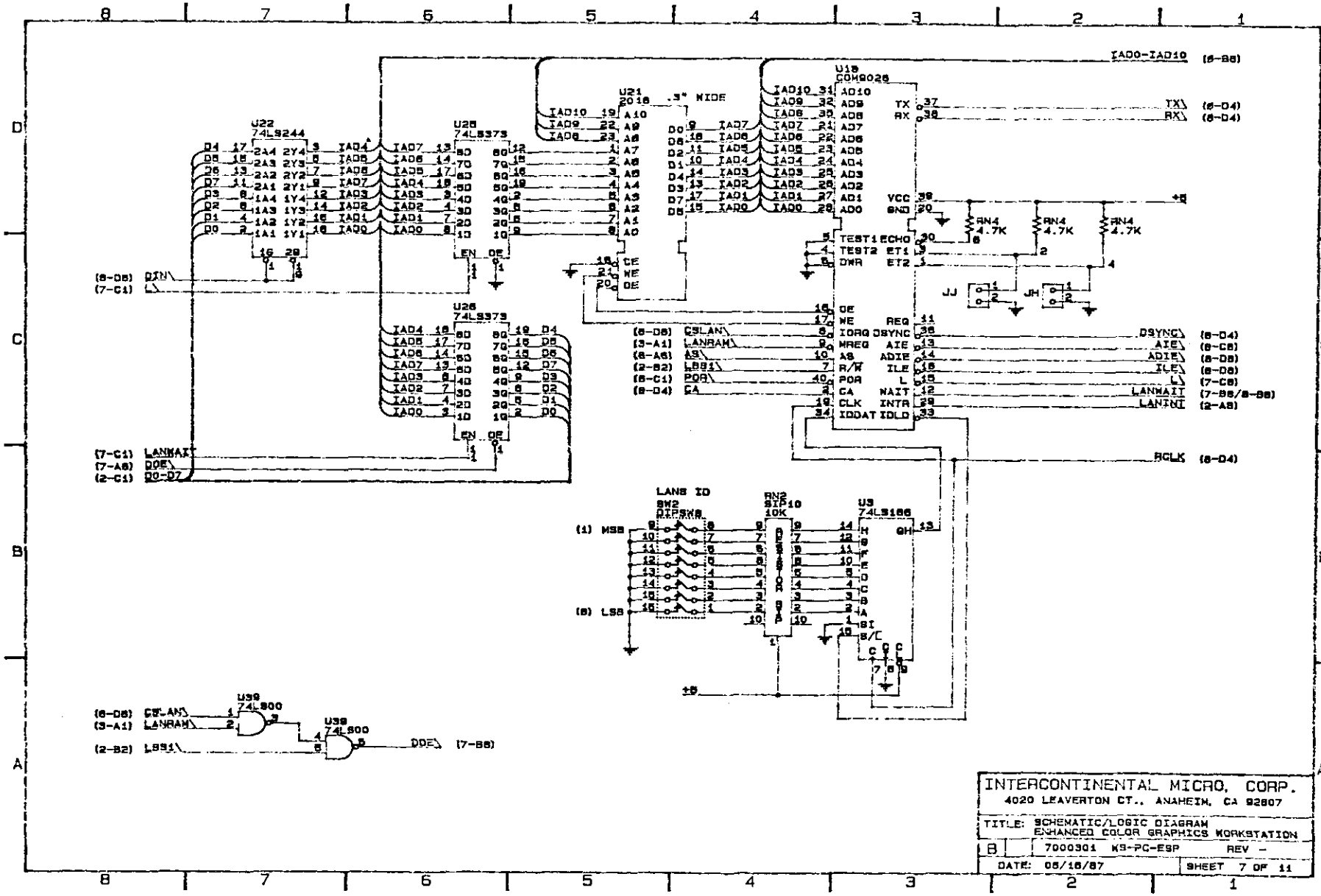

U19
UPD70208
U44
74F04
U1
74LS125
U45
74LS373
U56
74LS373
U50
74LS373
U20
74LS245
U36
74LS244
PART OF U36
SHEET 9
U37
75477
C32
20PF
C31
20PF
Y1
16MHZ
SHIELD
CLKOUT (5-A4/6-A6/8-A6/10-D2)
(2-C6) VASTB
(2-D6) HOLDAK
ASTB (2-C4/8-D8/10-D1)
(6-D6) IRESET\
(5-B3, D2) HOLDRQ
CLKOUT (5-D4/8-D8)
REFRQ (3-B4/8-D4)
HIGH (5-D3)
RESOUT\ (5-B4, C4, C8/6-B6/8-D8/10-A8)
HLDAK (2-D3/5-A5, D5/10-D2)
BUFR/W (2-B1/5-B3, D3)
BUFEN\ (2-B1/5-B3, D2/10-C3)
MXA
MXD
IOWR\ (2-D2/3-B4/5-B3, D3/8-B6/10-B6)
IORD\ (2-D2/3-A6, B4/5-B3, D3/8-B2 10-A4, B6)
10-B8, C6/11-A6)
QS1 (2-D2/5-C8/6-B8, D5/10-B8, C8/11-A8)
QS0 QS0-QS1 (5-C3)
BS2 BS2-BS0 (5-B4, D3)
BS1
BS0
ASTB (2-D3)
AP8-AP15 (5-C3)
AP16-AP19 (5-C3)
AD0-AD7 (5-C3)
(2-D2) ASTB
(6-B6) READY
(5-C3) BUSY
+5
VDD
GND
GND
A19/PS3
A18/PS2
A17/PS1
A16/PS0
A15
A14
A13
A12
A11
A10
A9
A8
AD7
AD6
AD5
AD4
AD3
AD2
AD1
AD0
D3/RXD
DMARQ2
DMARQ1
DMARQ0
A3/TXD
DMAAK2
DMAAK1
DMAAK0
END/TC
INTP7
INTP6
INTP5
INTP4
INTP3
INTP2
INTP1
NMI
TCTL2
TCLK
INTAK/
SRDY/
TOUT1
TOUT2
(6-C3) DRQ3
(6-C4) DRQ2
(6-D4) DRQ1
(11-C2) PANTINT
(6-C4) INT6
(6-C4) INT5
(5-C6) COMIINT
(6-C4) INT3
(7-C1) LANINT
(6-B3) KBRQINT
(6-D4) NMI
(6-B8) SSPKR
(6-B1) 1.19318MHZ
DACK3 (6-C7/8-C4)
DACK2 (6-D8/8-C4)
DACK1 (6-C7/8-D4)
DACK0
T/C (8-C4)
TOUT2 (6-C8)
PC4 (6-C8)
R9
33
SP1
GMB-05
C41
0.01UF
+5
(6-B8) SPKRD
C14, 19, 23-28, 30, 33-40, 43, 53-54
0.1UF
XMEMW\ (8-C4)
XMEMR\ (8-C4)
XIORD\ (8-C4)
XIOWR\ (8-C4)
11-A6, A8)
9-D4/10-A4, B6, C6/
8-B6, C6, D5/8-B4, C6/
(3-B4, D4, D8/5-D8/
A0-A19
D0-D7
(3-A8/4-A8/6-B8/
6-C8/7-B8/8-A4, B3/
10-A8, B4, B5, C3/
11-B1, C8)
BUFEN\ (2-D6)
BUFRM (2-D6)
ASTB (8-A8)
LBS1\ (7-A8, C4)
INTERCONTINENTAL MICRO, CORP.
4020 LEAVERTON CT., ANAHEIM, CA 92807
TITLE: SCHEMATIC/LOGIC DIAGRAM
ENHANCED COLOR GRAPHICS WORKSTATION
B 7000301 WS-PC-ESP REV -
DATE: 08/16/87
SHEET 2 OF 11

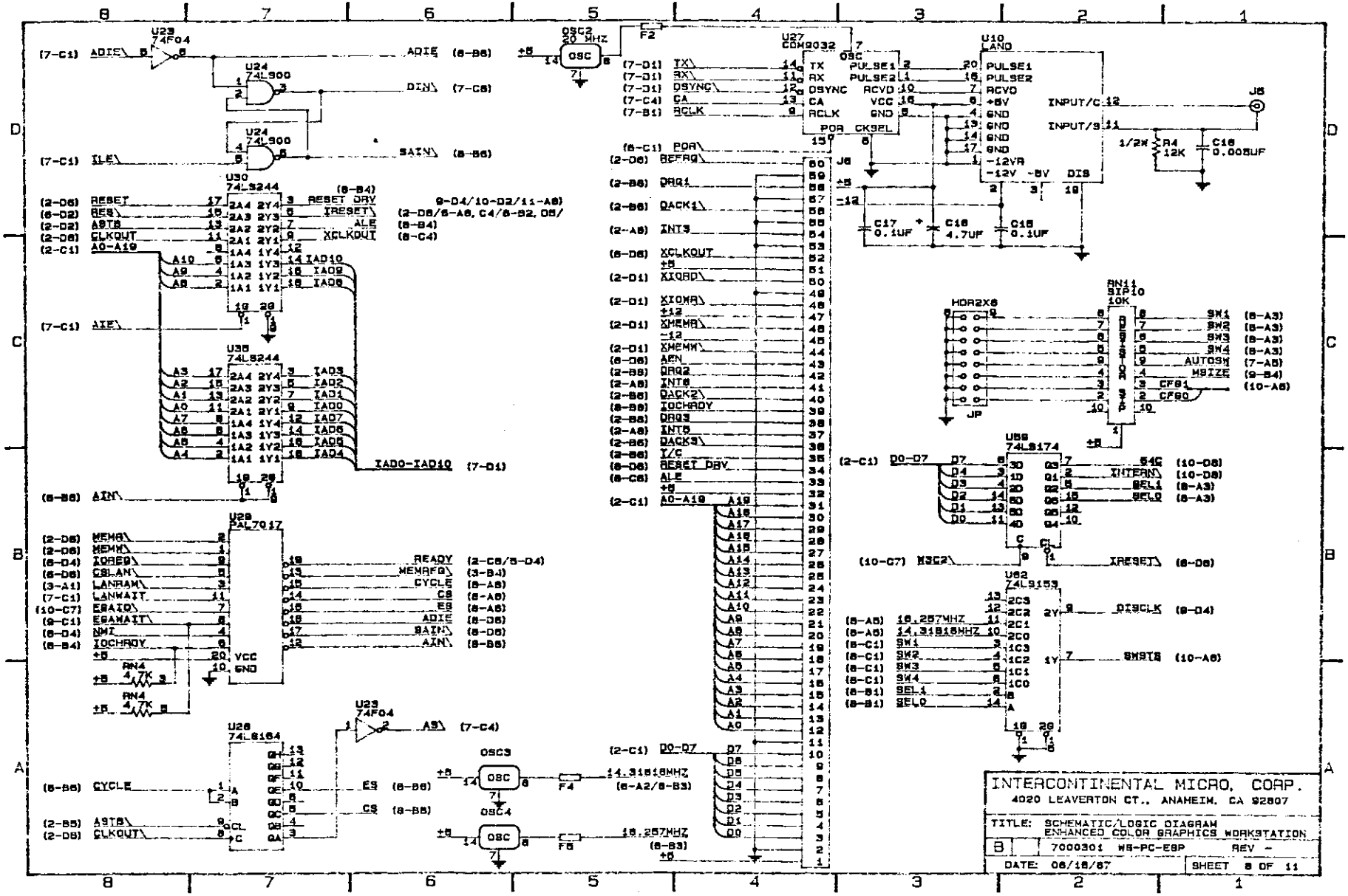

U83
27128
U86
27128
U87
27128
U81
U83
41264
64K X 4
DRAM
U51
74LS244
U67
74LS244
U42
74F04
U61
PAL8008
U65
TTL 150
RN8
SIPR4
33 OHM
RN9
SIPR4
33 OHM
RN10
SIPR4
33 OHM
RN7
SIPR4
33 OHM
INTERCONTINENTAL MICRO, CORP.
4020 LEAVERTON CT., ANAHEIM, CA 92807
TITLE: SCHEMATIC/LOGIC DIAGRAM
ENHANCED COLOR GRAPHICS WORKSTATION
B 7000301 MS-PC-ESP REV -
DATE: 06/16/87
SHEET 3 OF 11

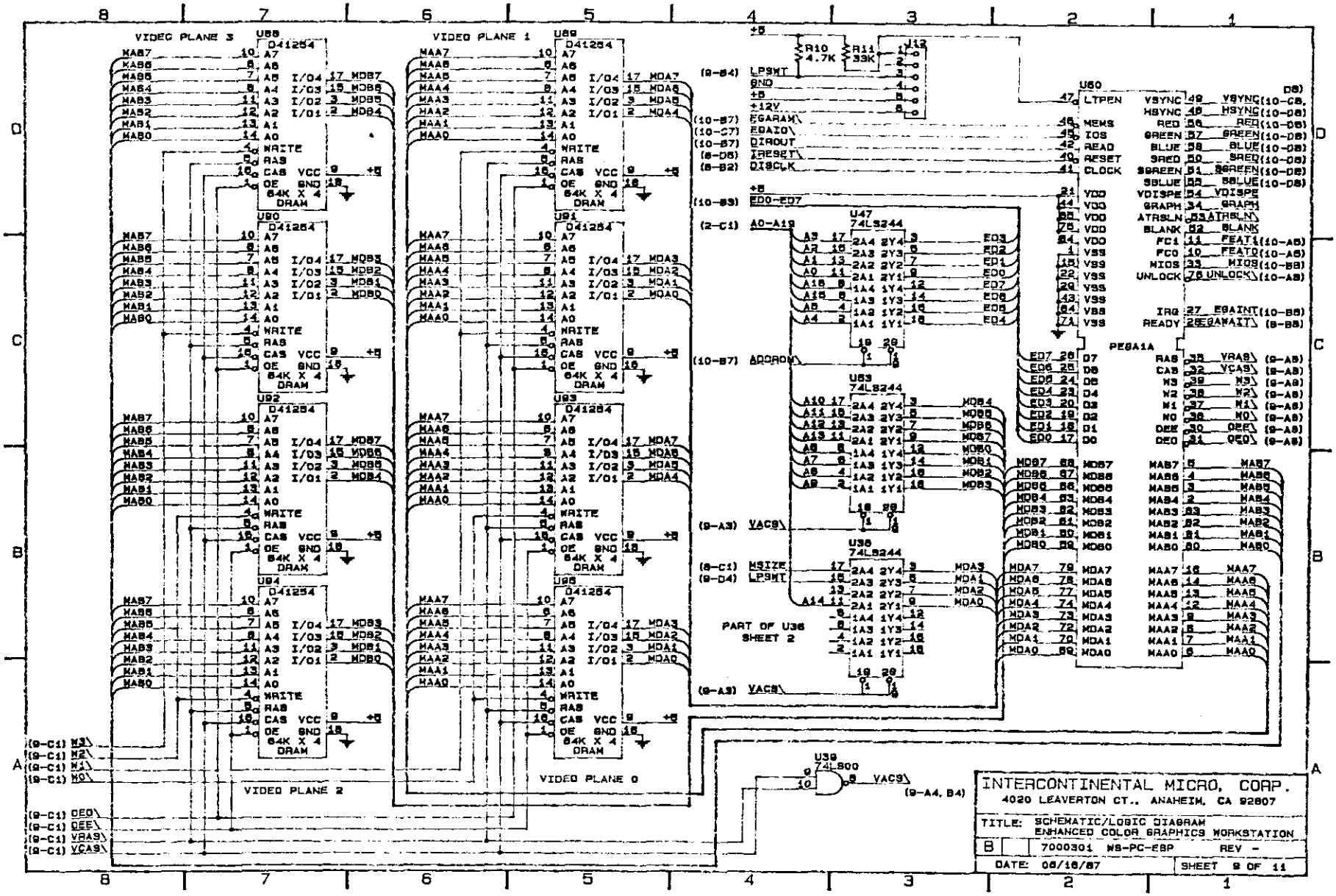

OSC1
1.8432MHZ
OSC
F1
U17
XTAL2
XTAL1
CSCOM1\
CS2
CSOUT
CS1
CS0
A0-A19
A2
A1
A0
ADS
DISTR
DOSTR
IORD\
IOWR\
RESET
MR
VCC
VSS
8250
INTRPT
OUT2
OUT1
BAUDOUT
RCLK
U117
74LS125
COM1INT
R6
2K
SOUT
RTS
DTR
SIN
CTS
DSR
RSLO
RI
D0-D7
ORXD1
OCTS1\
ODCD1\
U13
75188
TXD1
RTS1\
DTR1\
J3
RTS1\
DCD1\
RXD1
DTR1\
TXD1
CTS1\
JA
U8
75189
C20
C21
C22
47PF
FLOATING POINT PROCESSOR
U32
MWR
MRD
BUFEN
HIGH
INT
HLDRQ
BUSA/W
ASTB
BS2
BS1
BS0
QS0
QS1
BUSY
CLKOUT
HOLDAK
RESET
READY
CLK
HLDAK
UPD72191
VDD
GND
A19/PS3
A18/PS2
A17/PS1
A16/PS0
A15
A14
A13
A12
A11
A10
A9
A8
AD7
AD6
AD5
AD4
AD3
AD2
AD1
AD0
MEMW\
MEMR\
NPINT
BUFRW
NASTB
AP19
AP18
AP17
AP16
AP15
AP14
AP13
AP12
AP11
AP10
AP9
AP8
JY
JX
JW
HOLDRQ
RQGT0\
BUFEN\
R12
2K
8087-2
72191
JV OPEN CLOSED
JW OPEN CLOSED
JX 2-3 1-2
JY 1-2 2-3
JZ 2-3 1-2
RN11
10K
8087/V40#
JV
U48
PAL7401
U46
74F04
INTERCONTINENTAL MICRO. CORP.
4020 LEAVERTON CT., ANAHEIM, CA 92807
TITLE: SCHEMATIC/LOGIC DIAGRAM
ENHANCED COLOR GRAPHICS WORKSTATION
B
7000301 NS-PC-ESP
REV -
DATE: 08/16/87
SHEET 5 OF 11

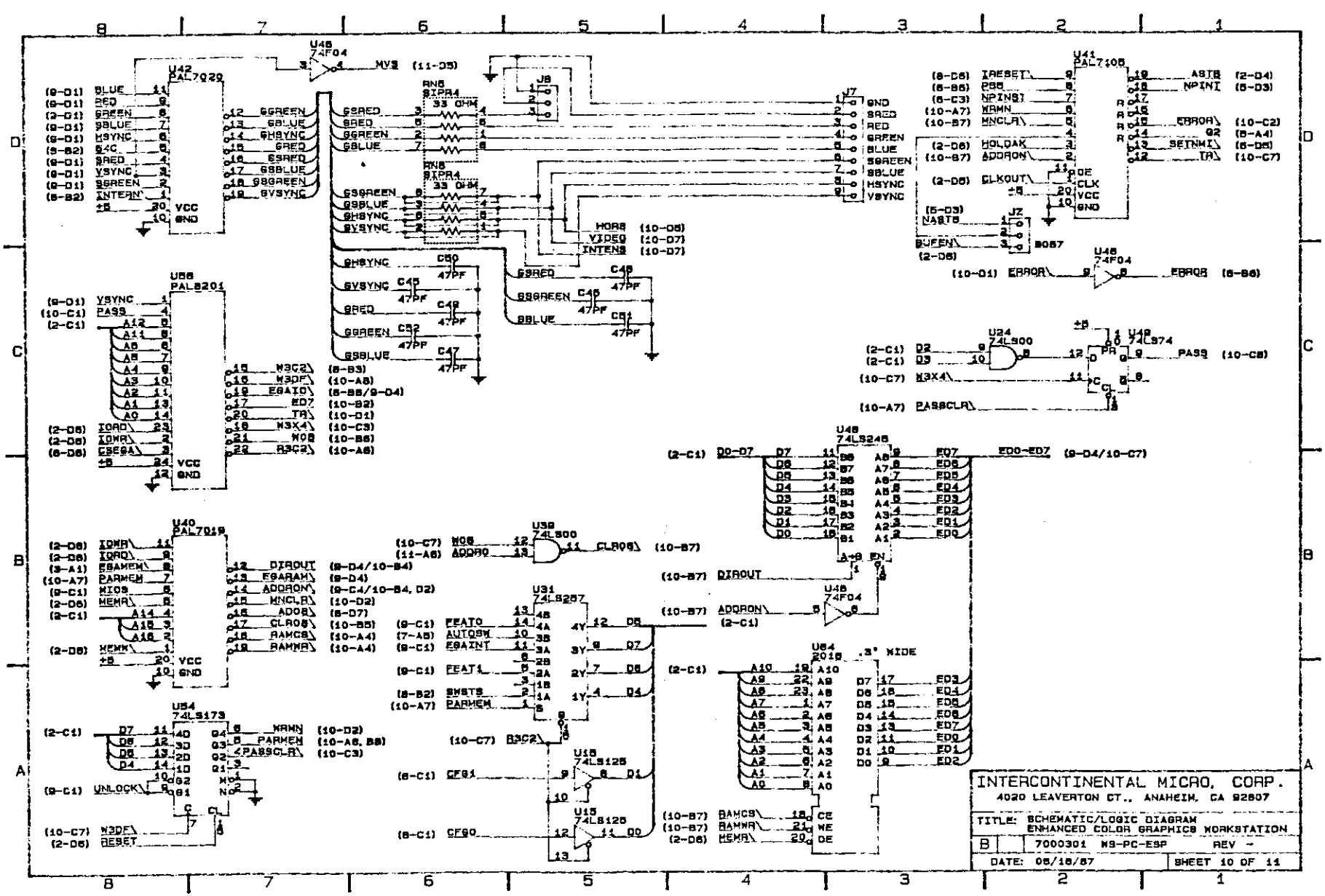

U39 PAL8008
U24 74LS00
U49 74LS74
U34 74F08
U34 74F08
U34 74F08
HDR2X8
RN3 SIP10
U7 74LS241
U16 8255
U11 74LS322
R7 120K
C42 4U3F
74LS123
U25 74F08
U4 74LS74
U1 74LS125
U4 74LS74
U23 74F04
U1 74LS125
U6 74LS175
U23 74F04
U46 74F04
U2 74LS163
R3 120K
C5 10UF
R2 4.7K
R1 4.7K
C2 47PF
C1 47PF
C3 47PF
C4 47PF
J1A
DATA
CLK
GND
+5VDC
RES*
GND
INTERCONTINENTAL MICRO, CORP.
4020 LEAVERTON CT., ANAHEIM, CA 92807
TITLE: SCHEMATIC/LOGIC DIAGRAM
ENHANCED COLOR GRAPHICS WORKSTATION
B 7000301 MS-PC-ESP REV -
DATE: 05/18/87
SHEET 6 OF 11

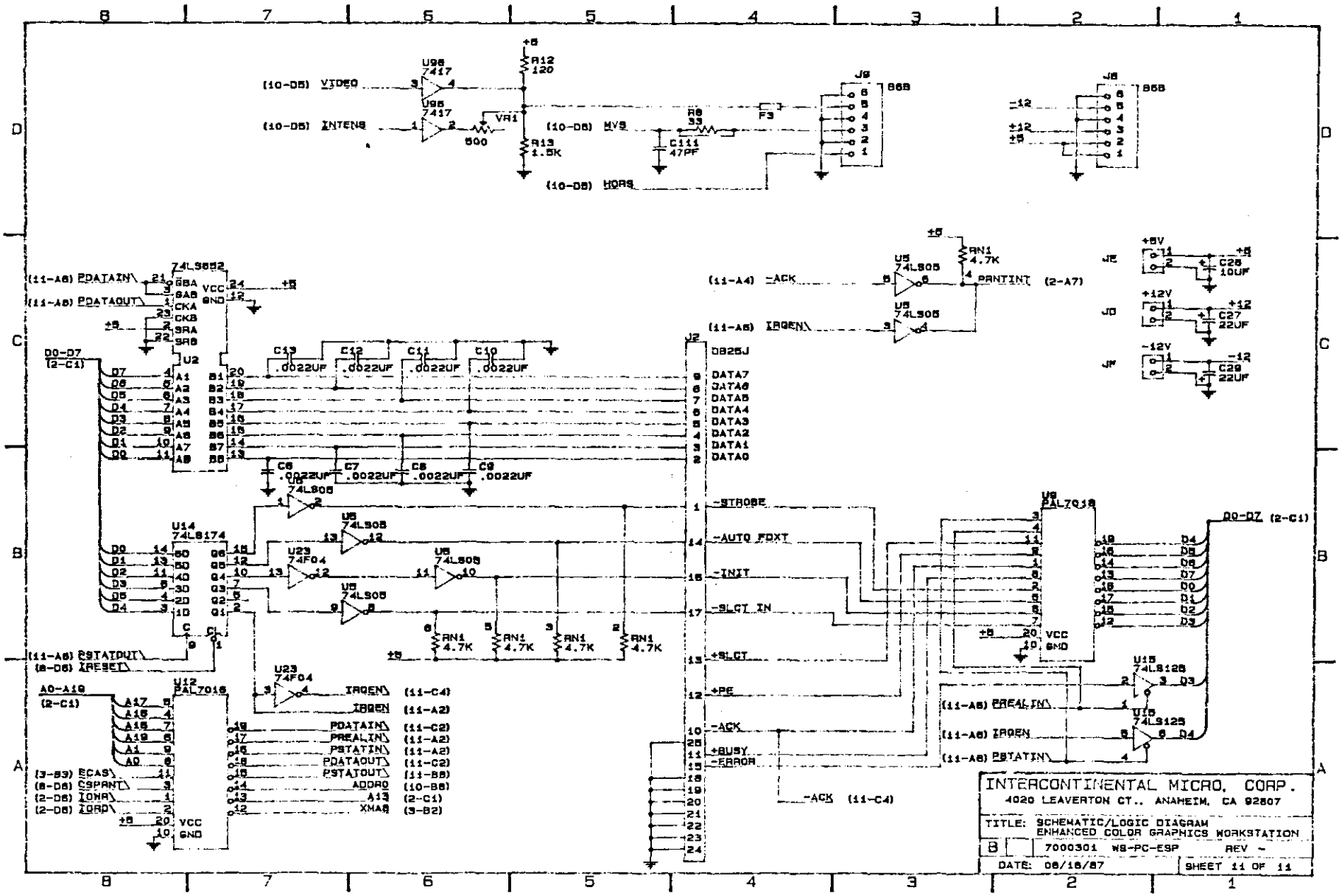


INTERCONTINENTAL MICRO. CORP. 4020 LEAVERTON CT., ANAHEIM, CA 92807		
TITLE: SCHEMATIC/LOGIC DIAGRAM ENHANCED COLOR GRAPHICS WORKSTATION		
B	7000301 K9-PC-ESP	REV -
DATE: 05/16/87		SHEET 7 OF 11


INTERCONTINENTAL MICRO, CORP.
4020 LEAVERTON CT., ANAHEIM, CA 92807
TITLE: SCHEMATIC/LOGIC DIAGRAM
ENHANCED COLOR GRAPHICS WORKSTATION
B
7000301 WS-PC-EGP
REV -
DATE: 08/18/87
SHEET 8 OF 11


VIDEO PLANE 3
VIDEO PLANE 1
VIDEO PLANE 2
VIDEO PLANE 0
D41254
64K X 4 DRAM
74LS244
74LS00
PEGA1A
U60
U47
U53
U36
U39
R10 4.7K
R11 33K
J12
LPSMT
EGARAM\
EGAIO\
DIROUT
IRESET\
DISCLK
ED0-ED7
A0-A19
ADDROM\
VAC9\
MSIZE
LPSMT
PART OF U36 SHEET 2
LTPEN
VSYNC
HSYNC
RED
GREEN
BLUE
SRED
SGREEN
SBLUE
VDISPE
GRAPH
ATRSLN
BLANK
FC1
FC0
MIOS
UNLOCK
IRQ
READY
EGAINT\
EGAWAIT\
D7
D6
D5
D4
D3
D2
D1
D0
DEE\
DEO\
RAS
CAS
N3
N2
N1
N0
VRAS\
VCAS\
INTERCONTINENTAL MICRO, CORP.
4020 LEAVERTON CT., ANAHEIM, CA 92807
TITLE: SCHEMATIC/LOGIC DIAGRAM
ENHANCED COLOR GRAPHICS WORKSTATION
B
7000301 WS-PC-EGP
REV -
DATE: 06/16/87
SHEET 9 OF 11


U42 PAL7029
U48 74F04
RN6 8IPR4 33 OHM
J8
J7
U41 PAL7105
U56 PAL8201
U24 74LS00
U48 74LS74
U48 74LS245
U40 PAL7019
U38 74LS00
U31 74LS257
U54 74LS173
U64 2018 .3" WIDE
U18 74LS125
U15 74LS125
INTERCONTINENTAL MICRO, CORP.
4020 LEAVERTON CT., ANAHEIM, CA 92807
TITLE: SCHEMATIC/LOGIC DIAGRAM
ENHANCED COLOR GRAPHICS WORKSTATION
B 7000301 WS-PC-ESP REV -
DATE: 06/16/87
SHEET 10 OF 11


(10-D5) VIDEO
(10-D5) INTENS
U96 7417
U95 7417
VR1
500
R12 120
R13 1.5K
R9 33
C111 47PF
F3
(10-D6) MVS
(10-D8) HORS
J9
868
J8
868
(11-A6) PDATAIN\
(11-A6) PDATAOUT\
74LS652
U2
D0-D7 (2-C1)
C13 .0022UF
C12 .0022UF
C11 .0022UF
C10 .0022UF
C6 .0022UF
C7 .0022UF
C8 .0022UF
C9 .0022UF
U14 74LS174
U6 74LS05
U23 74F04
RN1 4.7K
(11-A6) PSTATOUT\
(8-D6) IRESET\
U12 PAL7016
A0-A10 (2-C1)
(3-B3) ECAS\
(8-D6) CSPAN\
(2-D8) IOWR\
(2-D8) IORD\
IRQEN\ (11-C4)
IRQEN (11-A2)
PDATAIN\ (11-C2)
PREALIN\ (11-A2)
PSTATIN\ (11-A2)
PDATAOUT\ (11-C2)
PSTATOUT\ (11-B8)
ADDR0 (10-B8)
A13 (2-C1)
XMA8 (3-B2)
(11-A4) -ACK
(11-A6) IRQEN\
RN1 4.7K
PRNTINT (2-A7)
J2
DB25J
DATA7
DATA6
DATA5
DATA4
DATA3
DATA2
DATA1
DATA0
-STROBE
-AUTO FDXT
-INIT
-SLCT IN
+SLCT
+PE
-ACK
+BUSY
-ERROR
-ACK (11-C4)
U8 PAL7018
D0-D7 (2-C1)
D4
D5
D6
D7
D0
D1
D2
D3
U15 74LS125
(11-A6) PREALIN\
(11-A6) IRQEN
(11-A6) PSTATIN\
+5V
+12V
-12V
C26 10UF
C27 22UF
C28 22UF
INTERCONTINENTAL MICRO, CORP.
4020 LEAVERTON CT., ANAHEIM, CA 92807
TITLE: SCHEMATIC/LOGIC DIAGRAM
ENHANCED COLOR GRAPHICS WORKSTATION
B
7000301 WS-PC-ESP
REV -
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SHEET 11 OF 11